

Format No. CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2018-11-23-58	Date: 17-11-18
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore	
Project Name	:	Improvements to balance main and cross roads of BHIEL Layout in Attur ward no.03	
Agency	:	Sri. G. Kishore Naidu, No.81, SHI-C, 8th Cross, 5th Phase, Yelahanka, Bangalore	
Customer's Reference	:	EE(YNK D)E-PMT-07/W.O/34/2017-18	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	14-11-18	
Sample ID No	:	2018-11-23-58 /01	
Sample Type	:	Birla Super 53grade	
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2,3,4,5, 6,11) 1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, DETERMINATION OF DENSITY , Clause 6	

Date of test : 15-11-18

Environmental Conditions during test	:	Temperature	26°C
		Humidity	72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.15	—
2	Fineness by Air permeability method (m ² /kg.Min)	286.4	225m ² /kg. Min
3	Density (gm/cc)	3.14	—
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	185 minutes	Not less than 30 minutes
6	Final Setting time	280 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested

All information furnished by Customer/Representative

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R KARTTIK RECHAN

Authorized Signatory
Quality Manager

Page 1/1

****End of Report****



Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2018-11-23-58 Date: 13-12-18
Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP,
Bangalore.
Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name : Improvements to balance main and cross roads of BHEL Layout in Attur ward no.03
Agency : Sri. G. Kishore Naidu, No.81, SHI-C, 8th Cross, 5th Phase, Yelahanka, Bangalore.
Customer's Reference : EE(YNK D)E-PMT-07/W.O/34/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 14-11-18
Sample ID No : 2018-11-23-58 /01
Sample Type : Birla Super 53grade
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification,
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test : 15-11-18
Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength			
Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm ²	Not less than 27 N/mm ²
2	7 Days	39.0N/mm ²	Not less than 37 N/mm ²
3	28 Days	54.5N/mm ²	Not less than 53 N/mm ²

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ಯಶಸ್ವಿ ಸಂಸ್ಥೆಯಲ್ಲಿ
ಇ.ಇ.ಎಂ.ಎ. ಶಿಬಿರದಲ್ಲಿ-106

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Page 1/1
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Authorized Signatory
Quality Manager



Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2018-11-23-58 Date: 17-11-18

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Improvements to balance main and cross roads of BHEL Layout in Attur ward no.03

Agency : Sri. G. Kishore Naidu, No.81, SHI-C, 8th Cross, 5th Phase, Yelahanka, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-07/W.O/34/2017-18

Source of Sample : Sample supplied by Agency

Sample condition : Satisfactory

Date of Receipt : 14-11-18

Sample ID No : 2018-11-23-58 /02(a)

Sample Type : 40mm down size coarse aggregate

Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties

Date of test : 14-11-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	234	234	1.6	98.4	90-100
3	20 mm	5480	5714	38.1	61.9	30-70
4	10 mm	4676	10390	69.3	30.7	10-35
5	4.75 mm	4256	14646	97.6	2.4	0-5
	75 µm	354	15000	100.0	0	---

Page 1/2

R. K. S.



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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2018-11-23-58

Date: 17-11-18

Sample ID No : 2018-11-23-58 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.8	
3	Specific Gravity	2.68	—
4	Bulk Density(Loose) (Kg/l)	1.5	—
5	Bulk Density(Compacted) (Kg/l)	1.53	—
6	Water Absorption(%)	0.23	—

Note:

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R. Karthik Rechan

R KARTHIK RECHAN

Authorized Signatory

Quality Manager



Page 2/2

****End of Report****

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ದಿ.ಜಿ.ಎಂ.ಕೆ. ಬೆಂಗಳೂರು-106

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2018-11-23-58 Date: 17-11-18
 Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
 Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
 Project Name : Improvements to balance main and cross roads of BHEL Layout in Attur ward no.03
 Agency : Sri. G. Kishore Naidu, No 81, SHI-C, 8th Cross, 5th Phase, Yelahanka, Bangalore.
 Customer Reference : EE(YNK.D)E-PMT-07/W.O/34/2017-18
 Source of Sample : Sample supplied by Agency
 Sample Condition : Satisfactory
 Date of Receipt : 14-11-18
 Sample ID No : 2018-11-23-58 /02(b)
 Sample Type/ Size : 20mm down size coarse aggregate
 Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
 IS: 2386 :1963(Part - 1,3,4) RA2011
 IS 2386 Part 1: Particle Size and Shape
 IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
 IS 2386 Part 4: Mechanical Properties
 Date of test : 14-11-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken		5000		grams		
Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	245	245	4.9	95.1	90-100
3	10 mm	2635	2880	57.6	42.4	25-55
4	4.75 mm	1780	4660	93.2	6.8	0-10
5	Pan	340	5000	100	0	-

Page 1/2

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2018-11-23-58
Sample ID No : 2018-11-23-58 /02(b)

Date: 17-11-18

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	9.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.5	
3	Specific Gravity	2.66	—
4	Bulk Density(Loose) (Kg/l)	1.52	—
5	Bulk Density(Compacted) (Kg/l)	1.56	—
6	Water Absorption(%)	0.21	—
7	Aggregate crushing Value(%)	24.1	Max 30% for Aggregates to be used in concrete for wearing Surface. In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Page 2/2
End of Report

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R KARTHIK RECHAN
Authorized Signature
Quality Manager





TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2018-11-23-58 Date: 17-11-18

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Improvements to balance main and cross roads of BHEL Layout in Attur ward no.03

Agency : Sri. G. Kishore Naidu, No.81, SHI-C, 8th Cross, 5th Phase, Yelahanka, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-07/W.O/34/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-11-18

Sample ID No : 2018-11-23-58 /03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption

Date of test : 14-11-18

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	84	84	8.4	91.6	90-100	90-100	90-100	95-100
3	2.36 mm	145	229	22.9	77.1	60-95	75-100	85-100	95-100
4	1.18 mm	167	396	39.6	60.4	30-70	55-90	75-100	90-100
5	600 micron	187	583	58.3	41.7	15-34	35-59	60-79	80-100
6	300 micron	177	760	76.0	24.0	5-20	8-30	12-40	15-50
7	150 micron	148	908	90.8	9.2	0-10	0-10	0-10	0-15
8	Pan	92	1000	100.0	0.0	---	---	---	---

Result : The tested Sample Conforms to Grading Zone II

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R.K. L.





TEST RESULTS OF STEEL

Lab ID : CP-2018-11-23-58 Date: 16-11-18
Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name : Improvements to balance main and cross roads of BHEL Layout in Attur ward no.03
Agency : Sri. G. Kishore Naidu, No.81, SHI-C, 8th Cross, 5th Phase, Yelahanka, Bangalore.
Customer's Reference : EE(YNK.D)E-PMT-07/W.O/34/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 14-11-18
Sample ID No : 2018-11-23-58 /04
Sample Type : Sunvik
Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test: : 15-11-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm ²)	(N/mm ²)	(%)		
1	Sunvik	Fe500	8	0.393	515	653	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	525	669	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.887	541	672	20.0%	Satisfactory	Satisfactory

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager





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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2018-11-23-58 Date: 19-11-18

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Improvements to balance main and cross roads of BHEL Layout in Attur ward no.03

Agency : Sri. G. Kishore Naidu, No.81, SHI-C, 8th Cross, 5th Phase, Yelahanka, Bangalore.

Customer's Reference : EE(YNK D)E-PMT-07/W.O/34/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-11-18

Sample ID No : 2018-11-23-58 /06

Sample Type /Size : Precast Cover Slab

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 15/11/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm ²)	(N/mm ²)	(N/mm ²)
1	Cover Slab-1	75.26	100.25	1.269	4448	75.3	16.9	15.7	19.7
2	Cover Slab-2	75.49	100.42	1.273	4475	74.9	16.7	15.6	19.5
3	Cover Slab-3	75.55	100.19	1.262	4482	77.3	17.2	16.0	20.0

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2018-11-23-58 Date: 19-11-18

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Improvements to balance main and cross roads of BHEL Layout in Attur ward no.03

Agency : Sri. G. Kishore Naidu, No.81, SHI-C, 8th Cross, 5th Phase, Yelahanka, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-07/W.O/34/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-11-18

Sample ID No : 2018-11-23-58 /06

Sample Type /Size : Precast Cover Slab 250mm thick

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 15/11/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm ²)	(N/mm ²)	(N/mm ²)
1	Cover Slab-1	165.29	250.42	2.236	21454	398.6	18.6	17.3	21.6
2	Cover Slab-2	165.36	250.53	2.222	21472	392.3	18.3	17.0	21.2
3	Cover Slab-3	165.22	250.19	2.218	21435	387.5	18.1	16.8	21.0

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Quality Manager



TEST REPORT OF CEMENT CONCRETE CUBES

Date: 29/11/2018

Lab ID : CP-2018-11-23-58
Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name : Improvements to balance main and cross roads of BHEL Layout in Attur ward no.03
Agency : Sri. G. Kishore Naidu, No.81, SHI-C, 8th Cross, 5th Phase, Yelahanka, Bangalore.
Customer's Reference : EE(YNK.D)E-PMT-07/W.O/34/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 24-11-18
Sample ID No : 2018-11-23-58 /01
Customer ID : M20 Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/11/2018

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	M20 Concrete	M20	22/11/2018	29/11/2018	149.00 X 149.22 X 150.65	22235	8.454	420.0	18.7	18.5
2	M20 Concrete	M20	22/11/2018	29/11/2018	151.91 X 149.36 X 150.80	22690	8.100	408.0	18.1	
3	M20 Concrete	M20	22/11/2018	29/11/2018	151.35 X 151.13 X 151.23	22873	8.144	426.9	18.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 29/11/2018

Lab ID : CP/2018/23588
 Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
 Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
 Project Name : Improvement to balance main and cross roads of BHEL Layout in Attur ward no.03
 Agency : Sri. G. Nare Naidu, No.81, SHI-C, 8th Cross, 5th Phase, Yelahanka, Bangalore.
 Customer's Reference : BHEL/KS/D/B/PMT/07/W.O/34/2017-18
 Source of Sample : Sample supplied by Agency
 Sample Condition : Satisfactory
 Date of Receipt : 22/11/2018
 Sample ID No : 2020181122588031
 Customer ID : M20 Concrete
 Sample Type /Size : 150x150x150 mm
 Sample grade/Age : M20 / 7 Days Compressive Strength
 Reference to BIS codes : IS 5150-1959 Methods of Tests for Strength of Concrete Cl.5

Date of test

22/11/2018

Sl. No.	Identification Mark	Grade of concrete	Dimension of Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	M20 Concrete	M20	150.42 X 150.54 X 150.45	22644	8.312	389.5	17.2	17.2
2	M20 Concrete	M20	150.42 X 150.54 X 150.45	22644	8.331	398.5	17.6	
3	M20 Concrete	M20	150.32 X 150.54 X 150.35	22629	8.345	380.2	16.8	

Note:

The results pertain to the samples received and tested.
 All information furnished by Customer/Representative.
 Any correction in the report will make this report invalid.
 This report without prior written approval should not be reproduced or published in full or part.
 Samples will be disposed after 90 days from the date of issue of test certificate.

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 Page 1/1
 ****End of Report****

FOR CIVIL PRO.
 R. KARTHIK RECHAN
 Authorized Signatory
 Quality Manager

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 HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL
 GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |



TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-11-23-58 Date: 29/11/2018
Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name : Improvements to balance main and cross roads of BHEL Layout in Attur ward no.03
Agency : Sri. G. Kishore Naidu, No.81, SHI-C, 8th Cross, 5th Phase, Yelahanka, Bangalore.
Customer's Reference : EE(YNK D)E-PMT-07/W.O/34/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 24-11-18
Sample ID No : 2018-11-23-58 /05
Customer ID : M20 Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl 5
Date of test : 29/11/2018

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	M20 Concrete	M20	22/11/2018	29/11/2018	150.42 X 150.54 X 150.45	22644	8.312	389.5	17.2	17.2
2	M20 Concrete	M20	22/11/2018	29/11/2018	150.42 X 150.54 X 150.45	22644	8.331	398.5	17.6	
3	M20 Concrete	M20	22/11/2018	29/11/2018	150.32 X 150.54 X 150.35	22629	8.345	380.2	16.8	

Note:

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FOR CIVIL Pro.
R. K. KARTHIK RECHAN
Authorized Signatory
Quality Manager



TEST REPORT OF CEMENT CONCRETE CUBES

Date: 29/11/2018

Lab ID : CP-2018-11-23-58

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Improvements to balance main and cross roads of BHEL Layout in Attur ward no.03

Agency : Sri. G. Kishore Naidu, No.81, SHI-C, 8th Cross, 5th Phase, Yelahanka, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-07/W.O/34/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-11-18

Sample ID No : 2018-11-23-58 /07

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS. 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/11/2018

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	M20 Concrete	M20	22/11/2018	29/11/2018	150.36 X 150.38 X 150.42	22611	8.312	388.9	17.2	17.2
2	M20 Concrete	M20	22/11/2018	29/11/2018	150.46 X 150.43 X 150.48	22634	8.331	398.4	17.6	
3	M20 Concrete	M20	22/11/2018	29/11/2018	150.32 X 150.49 X 150.38	22622	8.345	380.0	16.8	

Note:

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ಸಹಾಯಕ-ನಿರ್ಮಾಣ ಇಂಜಿನಿಯರರು
ಯಶವಂತ ಉಪನಿರ್ದೇಶಕರು
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